

FORIS® FS2332

Internal Speakers and Headphone Jack

Dual internal 0.5-watt speakers give the FS2332 audio capability. A headphone jack is conveniently positioned on the side of the monitor.



Remote Control

A card-style remote control which offers full control of the OSD menu plus one-touch access to screen size, volume, and PC/HDMI input selection is included.



Color Stripes

Personalize the look of your monitor by affixing a red, blue, or gray color stripe across its lower front bezel. The color stripes are included.



EIZO ScreenSlicer

This is a free software utility that lets you more effectively use your screen through partitioning. Simply drop your windows into configurable partitioned areas and they will be aligned instantly.



Customer Assurance

A five-year warranty offers a long service life, and compliance with leading industry standards such as TCO Display 5.2 and TÜV Ergonomics ensures a better working environment.



FORIS® FS2332



	PC Input	AV Input
Panel Size	23" / 58 cm (584 mm diagonal)	
Active Display Size (H x V)	509.8 x 286.7 mm	
Panel Type	IPS (with overdrive circuit)	
Viewing Angles (H, V)	178°, 178° (at contrast ratio of 10:1)	
Brightness	250 cd/m²	
Contrast	1000:1 (1500:1 with ContrastEnhancer)	
Response Time (Typical)	Gray-to-gray: 6 ms, black-white-black: 16 ms	
Native Resolution	1920 x 1080 (16: 9 aspect ratio)	
Pixel Pitch	0.2655 x 0.2655 mm	
Display Colors	16.77 million from a palette of 1.06 billion	
Look-Up Table	10 bits per color	
Cabinet Color	Black	
Dot Clock	Analog: 148.5 MHz, Digital: 148.5 MHz	
Analog Scanning Frequency (H, V)	31 – 81 kHz, 55 – 76 Hz	–
Digital Scanning Frequency (H, V)	HDMI: 31 – 68 kHz, 49 – 61 Hz (VGA Text: 69 – 71 Hz) DVI: 31 – 68 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz)	
Video Input Terminals	D-Sub mini 15 pin, DVI-D 24 pin (with HDCP), HDMI x 2 (PC/AV [1080p / 720p / 480p])	HDMI x 2 (PC / AV [1080p / 720p / 480p])
Audio Input Terminals	3.5 mm stereo jack x 1 HDMI x 2 (PC / AV)	HDMI x 2 (PC / AV)
Audio Output Terminals	3.5 mm headphone jack	
Speakers	0.5 W + 0.5 W (stereo)	
Plug & Play	VESA DDC 2B	
Power Requirements	AC 100 – 120 V / 200 – 240 V, 50 / 60 Hz	
Power Consumption	20 W (typical) 34 W (maximum)	
Power Save Mode	Less than 1 W	
Tilt / Swivel / Pivot	20° Up, 5° Down / – / –	
Dimensions (W x H x D)	With Stand 549 x 403 x 212 mm Without Stand 549 x 393 x 58 mm	
Net Weight	With Stand 6.2 kg Without Stand 5.4 kg	
Preset Modes	User1, User2, sRGB, Paper, Game, Cinema, Auto Fine Contrast¹	
EcoView Settings	Auto EcoView, EcoView Index	
Screen Adjustment	Clock, Phase, Position, Resolution, Screen (Auto), Range (Auto)	–
Screen Size	Normal, Enlarge, Full Screen	Auto, Normal, Letterbox, Enlarge, Full Screen
Color Adjustment	Brightness, Black Level, Contrast, Gamma, Temperature, Saturation, Hue, Gain, ContrastEnhancer, Smart Resolution (Skin Tone Enhancer, Text Enhancer, Video Area Enhancer), Overdrive, Reset	
Power Management	Power Save (VESA DPM and DVI DMPM), Off Timer	
Sound	Volume, Mute, Sound Level, Power Save, Source (HDMI)	
Other Settings	Product Information (name, serial number, resolution, operating time, etc.), OSD Menu Settings, HDMI Color Space, Adjustment Lock, DDC/CI Lock, Languages (English, French, German, Italian, Japanese, Simplified and Traditional Chinese, Spanish, Swedish), Power Indicator, Reset	
Certifications and Standards	TCO Displays 5.2, EPEAT Silver (US), TÜV/Ergonomics (including ISO 9241-307), TÜV/GS, c-Tick, CE, CB, cTÜVus, FCC-B, Canadian ICES-003-B, TÜV/S, VCCI-B, EPA Energy Star, RoHS, WEEE	
Supplied Accessories	AC power cord, signal cable (DVI-D – DVI-D), audio cable, EIZO LCD Utility Disk (PDF user's manual, ScreenManager Pro for LCD [DDC/CI], EIZO ScreenSlicer software), color sheets (red, blue, and gray), setup guide, 4 screws for mount option, remote control with battery, warranty card	
Warranty	Five Years³	

¹ Bundled ScreenManager Pro for LCD is necessary to activate Auto Fine Contrast. ² ScreenManager Pro for LCD is compatible with the Microsoft Windows 7 and Vista operating systems only. ³ The usage time is limited to 30,000 hours or less, and the warranty period of the LCD panel is limited to three years from the date of purchase. With current LCD technology, a panel may contain a limited number of missing or flickering pixels.

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Heroes of Newerth images are provided courtesy of S2 Games.
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FORIS® FS2332



Smart Resolution

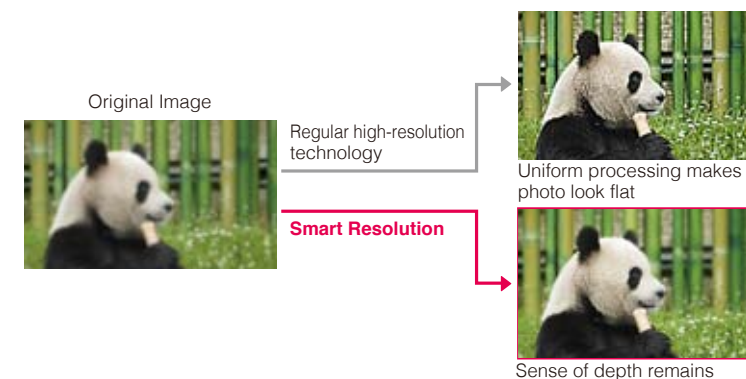
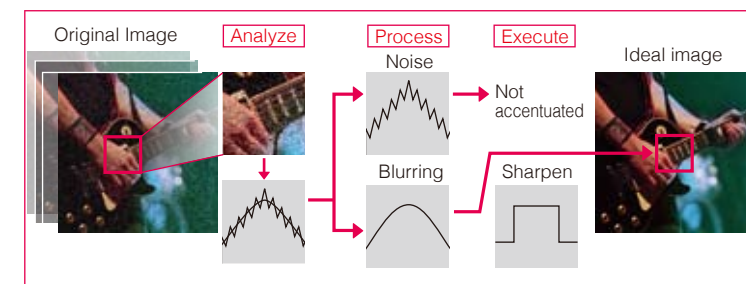
Smart Resolution

The FORIS FS2332 features EIZO's original Smart Resolution imaging technology. Smart Resolution analyzes the displayed content and determines what should be adjusted and what should be left as is so you can enjoy higher levels of clarity and sharpness.

Clearly, vividly FORIS



How Smart Resolution Works Patent Pending



► Estimating Noise and Blur

Typical high-resolution image processing accentuates the noise in an image and makes it appear unnaturally coarse. Smart Resolution does more than simply enlarge and correct the original image. It analyzes each area of the image frame by frame and calculates the noise and blur. It ensures that the noise is not accentuated while correcting the blur to the extent needed to sharpen the image.

► Focusing on the Right Area

Smart Resolution takes a blurry image with depth and distinguishes between the foreground and background. It adjusts the focus but only where needed to maintain a realistic depth of field.

► 5-Stage Adjustment

Smart Resolution comes with 5 adjustment levels accessible via the bundled remote control.

The original FORIS solution

Text, Images, and Video, Too

Smart Resolution uses three corrective technologies in applying optimal, high-resolution enhancement to the displayed contents. This is especially apparent in content filled with text and images such as web pages. Just turn on Smart Resolution in the OSD menu and the content will be displayed clearly and vividly.

Skin Tone Enhancer ON

The coarse look of skin that often results from high-resolution processing is toned down with Smart Resolution for smoother and more natural display.

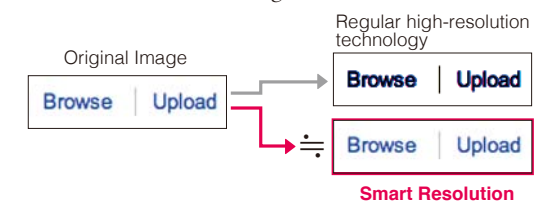


Video Area Enhancer ON Patent Pending

Smart Resolution can detect where on the screen video is playing and only apply high-resolution processing to that area. Still images that do not need any adjustment are left untouched. This is very practical in a situation where you are doing two things at once such as watching a video and editing a photo.

Text Enhancer ON Patent Pending

Smart Resolution can distinguish text from other content and ease up on the high resolution processing as necessary. This minimizes the roughness around the edges and color changes in text that are common with normal high-resolution image processing so you can get more enjoyment from web sites containing a mix of video and text.



Stay Ahead of the Game

If you can detect your opponents sooner and play longer without your eyes tiring then you have a competitive advantage. The FORIS FS2332's outstanding image quality and accurate color reproduction makes it easy to see your opponents and counteract quickly. This is why FORIS monitors are quickly gaining popularity amongst both enthusiast and professional gamers.

EIZO is a proud sponsor of Fnatic, one of the most highly-regarded organizations in eSports. Fnatic's players, including their Heroes of Newerth members like Johan "n0tail" Sundstein, hone their skills on FORIS monitors.



"Being a professional gamer requires many hours in front of your monitor, something that many people do not understand. At Dream-Hack Summer 2011, I used an EIZO FORIS monitor for the first time and played on it for around 12 hours straight. Colors were good, pictures were very smooth, and the great option menu made it very comfortable to use."

Johan "n0tail" Sundstein
Nationality: Denmark
Age: 17
Status: The best player in the world!



Wide-Angle IPS Panel

The IPS panel has 178° viewing angles and exhibits minimal change in contrast and hue when viewed from an angle. This allows two people to comfortably view the monitor at once when playing a game. The panel is also anti-glare which helps reduce eye fatigue.



Panel with narrow viewing angle



IPS panel

Overdrive Circuit for Faster Response Time

An overdrive circuit is included to reduce gray-to-gray response time to 6 ms and ensure that moving images look clean and sharp with minimum ghosting. This function has Standard and Enhanced modes. It can also be turned off if preferred.



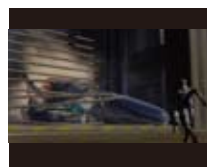
Without overdrive circuit



With overdrive circuit

Full HD Resolution

The 1920 × 1080 native resolution displays pixel-by-pixel all the content of full high-definition video sources such as Blu-ray discs and many of today's games without any black bars across the top and bottom of the screen.



19" monitor (1280 × 1024)



FS2332 (1920 × 1080)

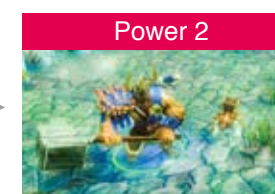
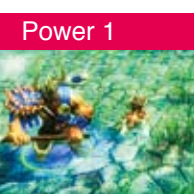
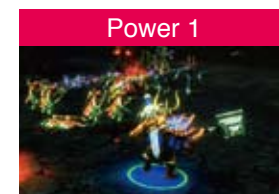
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Input Lag of Less than One Frame

The input lag or the difference between the time a signal is input into the monitor and then shown on the screen is less than one frame. This is approximately 1/60th of a second, so gamers see the action as it happens and react immediately.

Game Mode with Power Gamma

The FORIS FS2332 comes with a preset mode for gaming that activates an EIZO-developed feature called Power Gamma. This feature produces images that are vibrant and rich in detail. Power Gamma has two settings – "Power 1" which sharpens midtones and "Power 2" which brings out subtle differences in the low tones for better clarity in dark areas.



Heroes of Newerth images are provided courtesy of S2 Games.

Inputs for PC and Console Gaming

Whether you do PC or console gaming or both, the FORIS FS2332 has an input connector to meet your needs. Dual HDMI inputs support PCs and gaming consoles as well as other audio-visual devices such as Blu-ray disc players and TV tuners. DVI-D and D-Sub inputs allow connection to PCs with digital and analog graphics boards respectively.





Color Matching Made Simple

Screen-to-Print Matching

Have you ever spent a lot of time editing a digital photo to get the colors just the way you want them only to see that the print looks nothing like what's on your screen? You don't have to be an expert in color management or spend a small fortune on equipment to get a good screen-to-print match. EIZO EasyPiX is a what-you-see-is-what-you-get solution that makes color matching simple. It consists of calibration software and a color sensor and is sold separately.

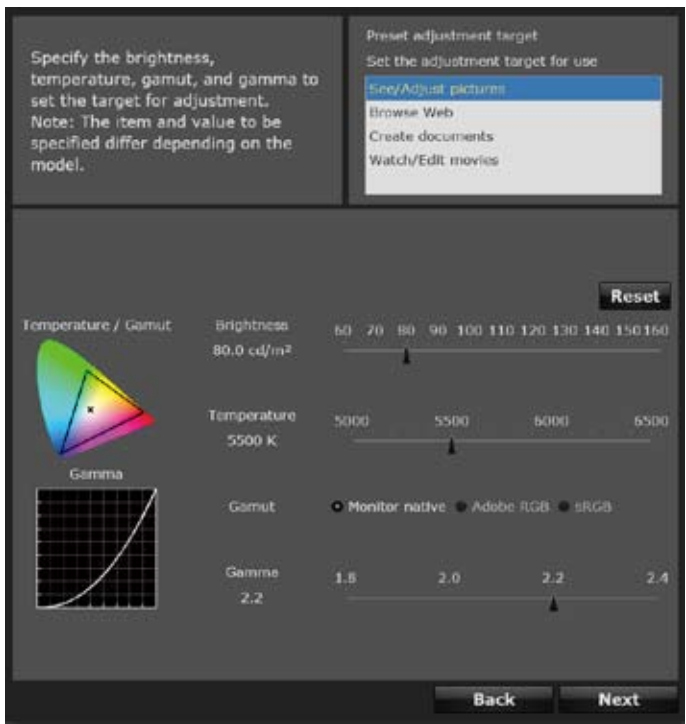
Accurate Color with Hardware Calibration

EIZO EasyPiX uses a process called hardware calibration which means it directly adjusts the monitor's color settings instead of the PC's graphics board to deliver accurate color. Color settings can be adjusted as follows:

- Brightness: 60 – 160 cd/m²
- Color temperature: 5,000 K – 6,500 K
- Gamut: Monitor native
- Gamma: 1.8 to 2.4

You can also select calibration presets for common tasks listed in the table below. This takes the guesswork out of assigning values for users with limited color management knowledge.

Task	Brightness	Color Temperature	Color Gamut	Gamma
See/Adjust Picture	80 cd/m ²	5500 K	Monitor Native	2.2
Browse Web	100 cd/m ²	6500 K	sRGB	2.2
Create Documents	80 cd/m ²	5500 K	sRGB	2.2
Watch/Edit Movies	100 cd/m ²	6500 K	sRGB	2.2



EIZO EasyPiX color matching tool

Color Matching Between Your Prints and Monitor

EasyPiX also comes with a "Matching" mode for simple color matching between your prints and your monitor through paper white measurement.



Measure the white of your printing paper with the EX1 sensor.

Compare the white of your printing paper to your screen. Adjust your screen if necessary and calibrate.

With proper printer settings, the colors of your photo prints match those on your monitor

Gentle on the Eyes and Environment

23" High-Resolution Screen

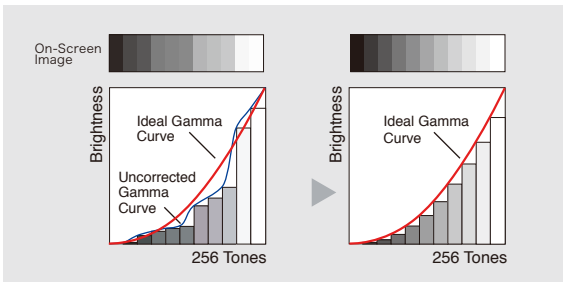
This 23-inch screen offers 2 megapixels of space to minimize the amount of time you need to spend switching between windows and scrolling. It also offers ample space for displaying your thumbnails and then expanding them for viewing or retouching.



Adobe product screenshot reprinted with permission from Adobe Systems Incorporated.

10-Bit Gamma Correction

This technology ensures smooth, accurate color tones by converting the 8-bit RGB (red, green, blue) signal data from the PC to 10-bits, assigning the ideal gamma values, then returning the data to 8-bit format for display.



Preset Modes for Optimum Viewing

Game, Cinema, sRGB, and Paper preset modes as well as modes for user-determined settings are included. Toggling between modes is done manually with the remote control or automatically by assigning a mode to a particular application with the bundled ScreenManager Pro for LCD software (Windows 7 and Vista compatible).



Paper Mode That Simulates Printed Paper

Paper mode makes reading digital documents and ebooks more comfortable by adjusting the monitor's brightness, contrast ratio, and color temperature to simulate the look of printed paper.



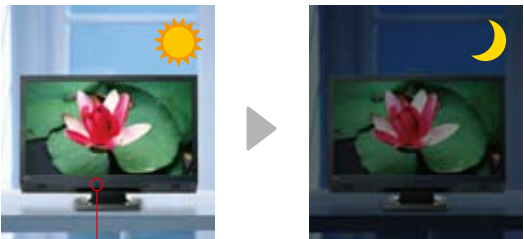
Energy-Saving LED Backlight

The LED backlight consumes less power than a conventional CCFL backlight. In addition, it is mercury free so it will have minimal environmental impact when disposed of.



Optimized Brightness

An ambient brightness sensor called "Auto EcoView" that detects changes in the ambient brightness and signals the backlight to adjust the screen brightness accordingly so it is never too dark or too bright.



Auto EcoView Sensor

Energy Efficiency Gauge

A gauge called "EcoView Index" indicates the level of power savings and equivalent amount of CO₂ reduction compared to using the monitor without Auto EcoView activated.

